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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	RNEY DOCKET NO. CONFIRMATION N	
10/600,128	06/20/2003	Kenji Ogawa	8963-000001 9780		
27572 7:	590 06/01/2005	EXAMINER			
•	OICKEY & PIERCE,	BUECHNER, PATRICK M			
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER	
			3754		

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/600,12	8	OGAWA, KENJI				
		Examiner		Art Unit				
		Patrick M E	Buechner .	3754				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the c	orrespondence add	lress			
A SH THE - Exte after - If the - If NO - Faild Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication a period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by streply received by the Office later than three months after the reed patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no eve n. a reply within the statu eriod will apply and wil tatute, cause the appli	nt, however, may a reply be tin lory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely, the mailing date of this cor D (35 U.S.C. § 133).	nmunication.			
Status			•					
1)⊠	Responsive to communication(s) filed on 2	20 June 2003.						
2a)□		This action is no	on-final					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	 ✓ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1 and 4 is/are rejected. ✓ Claim(s) 2,3 and 5-7 is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 							
Applicat	ion Papers	1						
10)⊠	The specification is objected to by the Example The drawing(s) filed on 20 June 2003 is/are Applicant may not request that any objection to Replacement drawing sheet(s) including the contraction of the oath or declaration is objected to by the	e: a)⊠ accepte the drawing(s) b rrection is require	e held in abeyance. Seed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF				
Priority :	under 35 U.S.C. § 119							
а)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Busee the attached detailed Office action for a	nents have beer nents have beer priority docume reau (PCT Rule	n received. n received in Applicati nts have been receive e 17.2(a)).	ion No ed in this National S	Stage			
Attachmer	ut(s)			•				
	ce of References Cited (PTO-892)		4) Interview Summary Paper No(s)/Mail D	(PTO-413)				
3) 🔯 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SE er No(s)/Mail Date <u>6/20/03,11/21/03</u> .		5) Notice of Informal F 6) Other:		-152)			

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DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because it is longer than 150 words. Correction is required. See MPEP § 608.01(b).

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japan Publication No. 08-254177 (the '177 publication) in view of Japan Publication No. 06-147102 (the '102 publication).

The '177 publication discloses a port member (6) having an inlet port (32), a fluid outlet port (34) and a sliding surface (Drawing 1) having openings (28, 30) communicating with the inlet and outlet port respectively. The '177 publication also discloses a valve member (10) that is rotatable and has a sliding surface to slide against the port member (Drawing 2). The '177 publication also discloses the valve member has at 7 plunger holes (12) arranged equidistant around the axis of the dispenser. The '177 publication also discloses a drive portion (8) for rotating the valve member. The '177 publication also discloses a cam (42) having a surface with

a predetermined profile. The '177 publication also discloses three plungers (16) in the plunger holes, the plungers moving parallel to the axis. The '177 publication also discloses each of the plungers having a semispherical recess to hold a ball (20) that rolls on the cam surface and slides in the semispherical recess. The '177 publication also discloses a biasing member (18) to bias the plungers towards the cam surface.

The '177 publication does not disclose specifically only three plunger holes that are located equidistant around the axis.

The '102 publication teaches a non-pulsation fixed quantity pump having three plunger holes spaced equidistant around the axis (Drawings 3 and 4).

It would have been obvious for one of ordinary skill in the art at the time the invention was made to reduce the number of plunger holes and plungers in the '177 publication to three plunger holes and plungers, as taught by the '102 publication, in order to reduce the complexity of the machine and reduce the likelihood of failures of parts.

Allowable Subject Matter

5. Claims 2, 3 and 5-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sampietro (US 2,910,056), Gilkey (US 2,913,911) and Mochizuki et al (US 4,155,683).

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7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Patrick M Buechner whose telephone number is (571) 272-4923.

The examiner can normally be reached on 6:30am-5:00pm M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Mar can be reached on (571) 272-4906. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PB

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700